

## Abstract

It relates to an energy meter device with two inputs (1,2), where to signals are fed in, which depend on electrical voltage (V) and an electrical current (I). These are digitized in analog/digital transformers (3,4) and linked to one another. A phase evaluation block (9) is coupled with outputs of the analog/digital transformers for the correction of phase deviations, which can be caused by means of coupling the signals (14,16). Phase evaluation block (9) controls a phase correction block (6) at the output of an analog/digital transformer (4). The phase evaluation can take place in digital signal processing. As a result, a cost-favorable compensation of phase errors is possible with limited expenditure, so that a galvanic isolation is possible at the input when avoiding measurement errors. The described energy meter device is particularly suitable for the implementation in integrated circuitry.

Figure